

# PATENT ABSTRACTS OF JAPAN

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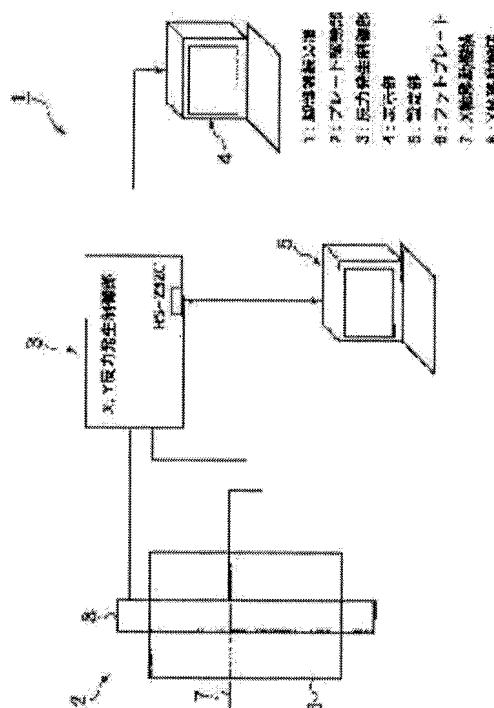
(72)Inventor : IWAMOTO EIJI  
KIMURA FUMIHIRO

## (54) LEG TRAINING DEVICE

(57)Abstract:

**PROBLEM TO BE SOLVED:** To provide a leg training device to be used for both leg training for an aged person and the like, and leg muscle power reinforcing training for a non-handicapped person.

**SOLUTION:** The leg training device 1 is to train the leg by supporting and moving a trainee's leg. The device is equipped with a plate driving part 2 which moves a foot plate 6 supporting the trainee's leg forward, backward and to the right and left, a control part 3 for generating resilience controlling a load applied to the leg when the foot plate 6 is moving, display part 4 displaying various information during training, and a set-up part 5 executing various set-up accompanying the training. The plate driving part 2 is provided with an operating-force detecting function detecting the load applied to the leg, a position detecting function detecting the position of the foot plate 6, and a mouth function executing cursor movement and click. Servomotors 15, 25 control the load and positively move the foot plate 6 or suppress its movement.



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**CLAIMS**

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[Claim(s)]

[Claim 1]In a leg training device which trains the leg by supporting and moving a trainer's leg, A leg training device which having had a plate actuator which moves a footplate supporting a trainer's leg to front and rear, right and left, and a reaction force generating control section which controls load which takes for a trainer's leg at the time of movement of the above-mentioned footplate, and constituting.

[Claim 2]The leg training device according to claim 1 which is provided with the following and characterized by controlling load which requires a reaction force generating control section for a trainer's leg by a detection value by these operation force detection function and a position detecting function.

An operation force detection function which detects load which requires the above-mentioned plate actuator for the leg via the above-mentioned footplate.

A position detecting function which detects a position of the above-mentioned footplate.



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(71) 出願人 598145794

株式会社ティ・アイ・ケイ

東京都府中市片町二丁目十五番三号

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(72) 発明者 岩本 英治

東京都府中市片町二丁目十五番三号 株式

会社ティ・アイ・ケイ内

(72) 発明者 木村 文博

東京都府中市片町二丁目十五番三号 株式

会社ティ・アイ・ケイ内

(74) 代理人 100090620

弁理士 工藤 宜幸

(54) 【発明の名称】 脚部訓練装置

(57) 【要約】

【課題】 高齢者等に対する脚部の訓練と健康者に対する脚部の筋力増強訓練との両方に使用できる脚部訓練装置を提供する。

【解決手段】 訓練者の脚部を支えて動かして脚部の訓練を行う脚部訓練装置1である。訓練者の脚部を支えるフットプレート6を前後左右へ移動させるプレート駆動部2と、フットプレート6の移動時に訓練者の脚部にかかる負荷を制御する反力発生制御部3と、訓練中の様々の情報を表示する表示部4と、訓練に伴う様々の設定を行う設定部5とを備えた。プレート駆動部2は、脚部にかかる負荷を検出する動作力検出機能と、フットプレート6の位置を検出する位置検出機能と、カーソルの移動やクリックを行うマウス機能とを備えた。サーボモータ15、25で負荷を制御し、フットプレート6を積極的に移動させたり、移動を抑えたりする。

